

The Official Journal of the Capital Area Timex/Sinclair Users Group

Presidential Ramblings

MAY YOU LIVE IN INTERESTING TIMES

If you're like us, you've heard the phrase above many times. Up until now, it really didn't have much meaning; however, you'd have to agree that it is very appropriate at this time with the unfolding events in Eastern Europe. How fitting for it to be happening around the Christmas season. Think of it as the people giving themselves the ultimate gift, freedom from the yoke of totalitarianism. Closer to home, we need to realize that there are many that are not as fortunate as we. The homeless need your help, so please do something.

The Executive Board would like to offer their best wishes for a Happy Holiday Season. We are looking forward to an eventful new year and hope you are, too.

**UNCLE CLIVE'S
HOLIDAY PARTY HERE
DECEMBER 9**

Believe it or not, the time is rapidly approaching for the Fourth Annual CATS Sinclair Holiday Celebration. And it's something YOU can be a part of while at the same time making history, if you get the drift!
THE PROCEDURE

1. Participation is strictly voluntary.
2. If you want to partake, locate a piece of Sinclair-friendly software or hardware you think might warm the cockles of another Sinclair enthusiast's heart. Or, any item intended for the general computer hobbyist would also be appropriate. Something unique would probably be more treasured than something simply expensive. (Oh, sure!)
3. Wrap the gift simply, omitting any identifying references.
4. Bring the gift to the CATS meeting December 9th, and place it under the Hierarchical Tree.
5. Later, you and your colleagues will randomly select new presents from all the unmarked gifts.
6. If you are supremely satisfied with your selection, under this year's rules you may immediately withdraw it from any further consideration. This also means you cannot exchange it for anything else, either.
7. Or, if you wish, you may keep it and leave it in plain sight for others to see, and perhaps end up with an exciting exchange.

Seasons Greetings

HELP WANTED

NEEDED, IMMEDIATELY: capable, willing, available individual to serve as the administrative leader of a group of active, energetic hobbyists interested in low-cost home computing.

No experience necessary.

No technical qualifications necessary.

Term of office: six months.

Will have a capable ten-member elected and appointed Executive Committee to help with the tough decisions.

Will be involved in conducting general membership meetings once a month and Executive Committee meetings when they are called.

Serves as the central point of contact for various activities proposed by and for the group.

If you would like to volunteer for this rewarding position, or nominate a good acquaintance, please contact:

TED OSHEROFF, Chairman CATS Executive Search Committee

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Best Wishes
for a
Merry Christmas

Key Dates

DECEMBER

- 9 General Meeting
- 19 January Newsletter

DEADLINE

- 25 Christmas

JANUARY

- 13 General Meeting

As you read this, you should be getting your gift ready to put under Uncle Clive's tree at our 4th annual Christmas party. I will miss the festivities this year--the slopes are opening at Wintergreen so I'll be skiing down there--so I want to take this opportunity to wish you a Merry Christmas and a Happy New Year.

Want Ad

I wouldn't say I'm burning out, but I would like to take a "3-4 issue" vacation from the newsletter job. If at all possible, I'd like to be off January through March so I could enjoy the skiing and not feel like I had to rush home to get something done on Sunday. Here's my offer: I will create the layouts for the January through April issues and then the Interim Editor would just have to paste in the articles. What could be easier. Give me a call if you'd like to help out.

Computer viruses-a true story

About a month ago, I finally received a W-P program that had been upgraded. So I copied the disks to my hard drive, tried to run the program, and, when it didn't run correctly, I just logged it out and used another W-P program. Several weeks later, I received a post card from the company saying that their upgrades had a virus. Even though the card reassured me that the virus didn't affect hard disks, I wasn't convinced. So I booted up and loaded Calamus, a dtp program that I had been using to layout a generic newsletter shell that I'd spent about 2 evenings on. The program loaded fine but when I went to the folder/directory that had the shell data, IT WAS EMPTY. The main program was intact and the first level directory showed I had the folder. I then looked at the data folders in the rest of the programs on my hard disk and found the same thing! Only one

program, one that I seldom use, had data folders with anything in them. Though I can't be absolutely sure, every program which I'd used since I installed the upgraded W-P program had data files which were zeroed out. Could the software people be mistaken about the contagiousness of the virus? Could this have been caused by something else? I don't know; however, it has given me an increased insight on this computer problem. Now before I put a program, even commercial ones, on my disk, I check each disk with a virus killer. While not 100% effective, maybe it can protect me from most of the depraved people that get their kicks from screwing up the work of people they don't even know. You should be careful too.

This issue has a wide variety of offerings. Be sure you read Hank's article on the "Gift Exchange Drill" before you come to the meeting. It is changed from

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Submissions to the newsletter should conform to the following criteria:

Column width no greater than 2 3/8". QL users should submit their articles on microdrive cartridge or floppy disk. TS 1000 or 2068 based articles should be hard copy. All authors should consider sending their articles to the newsletter via the CATS BBS, (301) 588-0579.

Our mailing address is:

CATS
P.O. Box 467
Fairfax Station, VA 22039

hathourri

news around the bellway

BUGBUSTERS!

Got a bug? Bring it in this December! Mark Fisher and Duane Parker will be examining BASIC programs, and evicting bugs from them. If you've been struggling over a particularly nasty question, we're ready to look it over, and see if we can find out where that bug is hiding.

If you have a Bug: Bring in the shortest fragment of the program that shows the unwanted bug. Let us know what you want to happen, and what really happens (and when!). A printed listing, as well as a microdrive version, would help as well.

See you at the hardware session, 11:00 AM!

TOM ROBBINS ANNOUNCES SANTA HAS YOUR DRIVES

The fabulous group buy for Mitsubishi quad-density (720 Kb) floppy disk drives engineered by CATS member TOM ROBBINS may come to fruition by the December 9 meeting, according to Tom's latest estimates.

"If not by the date of the meeting, then we certainly will have them in members' homes in time for holiday tinkering," Tom stated.

While the initial surge of orders from the members went out the middle of November, Tom says that individuals can still take advantage of the terms of the offer. He emphasizes that this is a bare

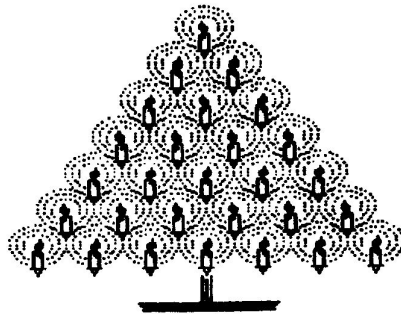
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1990 CATS PROGRAMS

Jan	
Memory Expansions	Bent
Feb	
"C" Programming	Robbins
Mar	
A,B,C's Modems/Boards	Fisher
Apr	
Spreadsheets	Akin
May	
TS Keyboards	Miller
June	
Radio Telecomputing	Diggs
July	
Artificial Intelligence	Guest
Aug	
Emulators-The Solution	Smith
Sept	
Superbasic Compiling	Robbins
Oct	
Tape to Disc Transfer	Miller
Nov	
Sinclair Libraries	Schaaf
Dec	
Archive Demonstration	Fisher

Bull Pen	
Team Programming	Fisher
Debugging Software	Parker
Telecomputer Faxing	Akin
Superbasic Revisited	Bent

Workshops	
Jan/Feb Pascal	Parker
Mar 5 1/4" Drives	Robbins
Apr/May Modems/Boards	Fisher
Jun/Jul Cats Newsletter	Smith
Anytime Hardware Points	Bent



"BY.O.C." DAY PLANNED

The Executive Committee has decided to make December 9th a "BY.O.C." (meaning "Bring Your Own Cookie") day in honor of the holiday festivities.

The Executive Committee will provide Programmer's Punch for the occasion, while members are asked to bring a small quantity (about a dozen) of their favorite cookies to share with the group.

The cookies can be either home-made from an age-old family recipe, Betty Crocker's oven-prepared, or your favorite store-acquired variety. Make plans now to come and enjoy CATS' first-ever BY.O.C. day, Saturday, December 9, 1989, starting at 2 p.m.!

BOARD GAME TO BE SHOWN AT HOLIDAY CELEBRATION

"GALAXY CONFLICT", a computer/board game for two players and a 16K ZX81, will be demonstrated at the CATS holiday celebration December 9th. Large-screen projections of both the computer's output and the movement of pieces around the game board will be arranged to provide a comfortable group demo. Originated in Great Britain in 1982, Galaxy Conflict resembles a primitive version of the Star Trek computer games that proliferated in this country in the mid-1980's.

Join the rest of the CATS members in making inter-galactic history on December 9th, the group's last gathering of 1989.

And Mr. Spock---eat your Vulcan heart out!!



from where I sit

Several months ago, I suggested that we start a series on how we used our computers. At the time I thought that it would be interesting to see the QL in a wide variety of settings. Who knows, it might have contained the spark that caused another person to say, "Hey, I need to do that too". Well the response has been UNDERWHELMING. I guess that it was predictable, seeing that my previous requests have met similar fates. Well, if you thought that silence would make the topic go away, you're WRONG.

Like many QL owners, I own more than one machine. In fact, I own four. Two are out of service for a variety of reasons--mainly due to the fact that I can never find the time to repair them--and the other two are in active service. I use one at home to work up some of the files that I use for the newsletter. The second is at work and really does "work". Since I got wrapped up in the Atari, my home machine has gotten less use; however, that is not to say that it is any less important now than before. You just have to use the Atari for a while to understand that statement. Oh, yes. I agree that using a mouse is really neat and that the way the desktop/directories are portrayed makes everything clearer, but, if I just want to "plain vanilla" compute, the QL is my choice. My home rig is real garden variety QL, Trump Card, and a NEC P2200 and Avatex 1200hc modem, both of which are shared with the Atari. I use Taskmaster at home and work and, for my money, it is the best multitasking front end going. Playing off against the QL is my Atari setup, Mega4 ST, monochrome and color monitors, and 100MB hard disk. Yet I still use my QL. Why? I don't think there is a more simple or user-friendly word/document processing program

than "Quill" so, when I have to send off a quick letter to someone, I fire up the QL. The same goes for the "Abacus" spreadsheet. I've developed a program that lets me track my investments that I run every day, so I just switch over from Quill to Abacus and I'm on my way. It is simple and many of the operations which are almost effortless on the QL require complicated "macros" in 1-2-3. I have a series of prompts using the ASKN and ASKT functions and they are a snap to set up. I've got a Lotus 1-2-3 clone on the Atari but if you've wrestled with the Lotus instruction set you would know that I could almost be through an application on a QL before the Atari program got set up. What's more, all my Atari W-P programs stink. There's no nicer word for the gyrations you have to go through to get decent output. That about covers my home usage, so what about at the office?

At work my setup includes a Sandy 512K SuperQ board (with inoperative mouse port), a NEC P5300, and an Epson H180 plotter. As far as I'm concerned, this is my workstation of choice. I really do have a choice since just across the hall and dedicated to me, if I want, is an IBM PC/XT (upgraded to a 386), 80MB hard drive, Epson FX286 printer, and a Hewlett-Packard scanner. This equipment lies idle while I merrily bang away on my QL doing office correspondence, reports, spreadsheets for tracking month-to-month budget expenditures, and graphs for various reports. Since I am responsible for building the budget, a once a year one month marathon, and the monthly tracking of our department's expenses, I use Abacus quite often. Once a month I prepare a summary of data extracted from the company generated budget reports and at this time I really give

the QL a workout. I use Abacus to prepare the spreadsheets which, incidentally, use all 256 rows! After the spreadsheets are generated, I use some of the data to update a set of Easel graphs which I can print out in 4 colors on the H180 plotter or use the NEC printer for black and white. Finally, I print out a cover using Digital Precision's Desktop Publisher Special Edition (v 2.0). (And you thought I had completely forsaken dtp on the QL. Shame!) To get a quick print, suitable for our internal use, I wheel the Epson in from across the hall and print it off. When finer output is needed, I use the NEC and graFixC. I spend half my day writing reports and other correspondence so Quill gets a real workout.

That's my "how I spent my summer vacation" piece on my QL usage. How do you use yours?



BBS Report by Mark Fisher, SYSOP

We've got a Kaypro! It's been a long road, but it looks like we'll be able to drive the BBS through our newly acquired K-10. It will offer 300 or 1200 BAUD service (what the heck - how about 9600 BAUD?), and allow up to ten Megabytes of data storage. In today's terms, that ain't much, but for us, it should hold most of the important 1000, 2068 and QL programs.

Getting it:

Tom Bent made the initial contact with the seller, based on a tip from Mike Cohen. Due to delays, the Kaypro was sold to someone else. Tom picked up an Altos as consolation prize. It was a fantastic value - 10 MEG hard drive, multi-user operating system, provisions for six simultaneous RS232 lines, at half the cost of the Kaypro. BUT. It also carried some liabilities.

- 1) While it used the same (CPM) operating system as the K-10, it couldn't use the BBS programs I'd already recieved from Phoenix Pete, as they used machine-specific overlays to handle the MODEM.
- 2) It used an 8" drive. Software would have to be piped in through the RS-232 ports.
- 3) It was LOUD. This BBS is going to be on the air 24 hours a day, and having such a machine grinding away in the back of the office was not an attractive prospect.
- 4) It wouldn't boot. Aside from Sinclair, the rest of the world stores it's operating system on magnetic media, and uses only a VERY bare-bones set of instructions coded in a ==4K EPROM for start up. I could get that EPROM to go, but I couldn't get the main operating system to load - either from the Hard disk, or from the two 8" floppies I had. I phoned the seller, and he told me that the person that had bought the K-10 out from under us had changed his mind, and it was available for us again.

Four days ago, I drove up to Sikesville, and traded machines. Bringing it back, I confidently plugged it in... and IT wouldn't boot either! I contacted the interim buyer, who had had it working (after he discovered the difference between the FORMATCOM program which reformats the HARD DISK without warning, and FLPYFMTCOM, which formats floppies). We went over the machine, checking connections and plugging and unplugging connections... and IT BOOTED!

Current events:

Right now, I'm re-learning CPM-ese. I want to verify the reliability of the HD first. Then, I've got to review the contents of the HD. There are a lot of duplications, with some significant differences between identically named programs (!!). When that's straightened out, I'll pull the unneeded programs off the HD, and start into the six packed disks that Pete Fischer sent me.

As always, I appreciate the help of many others: Tom Robbins, who sent me a CPM for the QL to try out the programs on, Tom Bent, who contacted the seller, Phoenix Pete, for the BBS programs, information, and encouragement, Mannie Quintero, who was going to research the local Kaypro user's group, Stan Guttenberg, who happened to have a copy of an Altos manual (sorry Stan, wrong one), Sam Chayt (the seller) who had held our check for a MONTH while I diddled around with the Altos, John Weske, an Osborne whiz that helped me tackle the K-10, and the rest of you, for your enthusiastic support. Check here, or on the BBS for further developments!

EMSoft Keeps QL Software Afloat

The twice-yearly catalog from EMSOft (Estate Management Services) recently arrived.

EMSOft continues to do heroic work in keeping proprietary software for the QL prominent in our consciousness.

In addition to programs initially developed for their own company's use, they have become involved in promoting quality packages for the QL originated by other software houses.

EMSOft's own titles include: MAILBAG (address data base), TAX-I-QL (spreadsheet for the IRS), QLAND-LORD (manages up to 99 units and does Schedule E), TRUST-FUND (tracks investments and net worth), and INVENTORY (knows what you have and where it is).

Math and engineering utilities for the QL are also available.

To get on their mailing list, send a 25-cent stamp and a label inscribed with your preferred mailing address to:

EMSOft division Estate Management Services P.O. Box 8763 Boston, MASS 02114-8763

We should do everything we can--- individually and collectively---to preserve and sustain salutary efforts such as these to keep alive the vision of the QL!!



1989-1990 MEMBERSHIP LIST

This is CATS' current membership list. The numbers to the right of the name indicate the date the current membership expires. If you find there is a mistake, please notify the Treasurer. Special thanks go to Barry Washington for putting the list together and Mark Fisher for working with the file to get it into the single column format for the newsletter.

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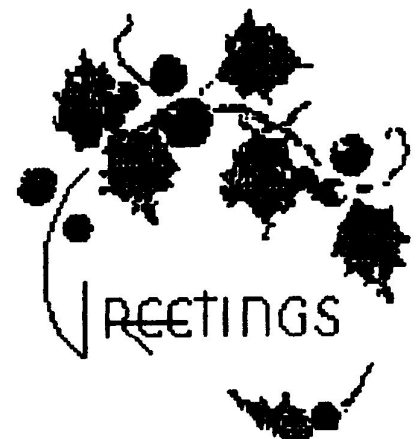
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Gift Exchange—Cont from Page 1
8. Finally, at the moment of first discovery, you may unilaterally exchange your gift with any other gift which has been opened ahead of you AND which may still be in the running.

THE PITCH

Right now is the time to begin going through your Sinclair-related memorabilia to pick out that one item which will make the holiday of another CATS member complete!

As one CATS member said to another last month, "I'll meet you at the Hierarchical Tree!!"



floppy disk drive. You will still need a disk interface, a power supply, a case, and a data cable connecting the drive to a PC.

Tom can help with sources for all of these "accessories".

The drive costs are: \$ 25.00 for the drive 1.50 for shipping and handling 1.00 to CATS for overhead

\$ 27.50 TOTAL

Tom will have the details available again at the December 9 meeting. If you have compelling questions in the interim, he can be reached at home at : 1-301-452-5671.

Archive Cont'd from Page 10

```
loaded: ";pr;
position (pr-1): print " ";
program$;
print at 15,10;"Merging
";prog-source$+program$;
..... "; merge
prog-source$+program$
```

```
endproc proc start
```

```
let DEV$="RAM2--"
letDBF-SOURCE$="FLP2--"

let PROG-SOURCE$="FLP2--"
print "generating Archive
program menu"
import DEV$+"progdir-exp" as

DEV$+"progdir" logical "
arch-programs"
print
print "generating Archive
database program menu"
import DEV$+"dbfdir-exp" as
DEV$+"dbfdir" logical
"data-bases"
print :
print :
print "DONE"
endproc
```

ELECTRONICS PLUS EXPANDS FACILITY

Computer hardware buffs will be pleased to hear that BILL ALLEN, longtime friend of CATS, has expanded the electrical offerings his old location at 9600 Baltimore Boulevard, College Park, MD.

Part of the building adjacent to the old ELECTRONICS PLUS has been taken over to form a NEW SURPLUS OUTLET

While the old ELECTRONICS PLUS store will continue to offer new, top-line parts and components, the NEW SURPLUS OUTLET will feature a constantly changing and expanding stock of "old to us but useful to you" items.

A recent visit found rows of neatly stacked telephones, modems, and handsets (just handsets) at reasonable prices, as well as a variety of full-size dot-matrix printers in the \$40 range. There were also computer cables of doubtful ancestry, as well as monochrome monitors and complete desk-top systems pre-dating Uncle Clive's ZX-80 breakthrough.

BILL ALLEN invites you to come in and browse at your leisure through the offerings at his NEW SURPLUS OUTLET

ELECTRONICS PLUS is just a couple of blocks inside the Beltway (Exit 25-B)

at Rt. #1, on the west side of Baltimore Blvd. It is across from the North College Park post office, where you enter a driveway from Rt. #1 that leads down a gravel road to the back of the lot. There both ELECTRONICS PLUS stores are located and marked.

ELECTRONICS PLUS 9600 Baltimore Blvd. College Park, MD 20740 (Metro) 441-9009

Using Smartterm II for data uploads.

By Mark Fisher

Problem: I had promised Vernon I'd upload the Membership list to the BBS. OK so far, except that I had only loaded CODE files into the buffer before, and the mem-list copy I got was stored in a character array file on tape.

Solution: From within Smartterm II: got to the Data menu, and clear the buffer (E). Exit to BASIC, and LOAD "" DATA A\$(). As a direct command, type POKE 23627, PEEK 23641: POKE 23648, PEEK 23642. RETURN TO SMARTTERM, via Rand USR 54016. The buffer will now contain the array.

For binary files ("" CODE blah, blah): From within St II: GotData menu, and set buffer open, CONVersion to NONE. Goto System Menu, and set Duplex to half. Goto Terminal mode, and type a couple of lines, to start the buffer. Return to data menu, and Transmit buffer. When you return to Terminal mode, the material you are transmitting will be echoed to the screen, and also added to the end of the buffer! Popping back to the Main menu will let you stop this process when you have expanded the buffer enough for your file.

Now exit to BASIC, Load "" CODE 26710, and return to the terminal mode, as above. Before you log on the BBS, make sure the Duplex is back to Full, and that the buffer is CLOSED, and that CON is NONE.

Have fun!



SOME ARCHIVE UTILITIES Thomas Robbins

Archive is, arguably, the most powerful of the Psion programs. It is an extremely flexible data base system. One feature lacking is a reasonable directory system. With 720 k disk space, one can have a lot of data bases and programs on one floppy--and not all Archive files. The directory command in Archive lists all files to the screen. This can get pretty confusing and cumbersome when you want to find a single data base or program whose name you can't quite remember exactly. It would be nice to have a directory of just the "-dbf" files or just the "-pro" files. There is a relatively easy way to add this feature to Archive using the extended directory features included in Toolkit II and most of the floppy disk interfaces.

Listing one is a SuperBasic program that generates two export files. The first contains only "-pro" Archive program files and the second contains only "-dbf" Archive database files. This should be run prior to executing Archive.

Listing two is an Archive program that imports these files as two databases - one of Archive programs and the other of databases. It also contains the procedures 'DBFDIR' and 'PRGDIR'. This is activated by entering Run "Archmenu" after loading Archive.

Entering DBFDIR in Archive will list to the screen by name and number up to thirty data bases from your disk. You then select the database to be opened by entering the number from the list.

Entering PRGDIR in Archive will list to the screen all the program files. By entering the appropriate number, the selected program will be merged.

If there is interest, future articles will show how to add a "Mail Merge" facility to join Quill and Archive (create your own junk mail) and how to add statistical functions and graph plotting to Archive.

Listing 1

```

1 REMark Copyright 1988
TRobbins/Samurai Cat Software
10 dev1$="ram2-"
20 REMark this is where the export
file will go--change to
flp1-, flp2-, mdv1- or mdv2- as
needed by your system configuration
30 :
40 dev2$="flp2-"
50 REMark this is the device on
which your archive files are
located--change to suit your system
configuration
1000 CLS
1005 PRINT "generating PRG export
file on ";dev1$
1010 DELETE dev1$ & "progdir"
1020 OPEN-NEW #5,dev1$ &
"progdir"
1030 DIR #5,dev2$ & "-prg"
1040 CLOSE #5
1050 OPEN #5,dev1$ & "progdir"
1060 OPEN-NEW #6,dev1$ &
"progdir-exp"
1070 PRINT #6;"program$"
1080 INPUT #5;a$:INPUT #5; a$
1090 REPEAT loop
1100 INPUT #5,a$
1110 PRINT #6,"";a$;" "
1130 IF EOF(#5):EXIT loop:END IF
1150 END REPEAT loop
1160 PRINT #6;CHR$(26)
1170 CLOSE #5:CLOSE #6
1180 :
1190 :
1195 PRINT "generating DBF export
file on";dev1$
1200 DELETE dev1$ & "dbfdir"
1210 OPEN-NEW #5,dev1$ &
"dbfdir"
1220 DIR #5,dev2$ & "-dbf"
1230 CLOSE #5
1240 OPEN #5,dev1$ & "dbfdir"
1250 OPEN-NEW #6,dev1$ &
"dbfdir-exp"
1260 PRINT #6;"program$"
1270 INPUT #5;a$:INPUT #5; a$
1280 REPEAT loop
1290 INPUT #5,a$
1300 PRINT #6,"";a$;" "
1320 IF EOF(#5):EXIT loop:END IF
1340 END REPEAT loop
1350 PRINT #6;CHR$(26)
1360 CLOSE #5:CLOSE #6

```

Listing 2 save as archmenu"

```

remark Copyright 1989 TRobbins/
Samurai Cat Software
proc dbfdir
cls
use "data-bases"
let X=0: let Y=0
all
print at XY;recnum()+1;"
"; tab 5;
print program$
let X=X+1
if (X=10 and Y=0):let X=0:
letY=25:
endif
if (X=10 andY=25): let X=0:
let Y=50:
endif
if (X=10 and Y=50): let X=0:
letY=72:
endif
endall
print at 15,10; input "enter
database #
to be opened: ";db;position
(DB-1)
cls
print "OPENING #";DB;"";
PROGRAM$
open
DBF-SOURCE$+PROGRAM$
logical PROGRAM$
endproc
proc prgdir
cls
use "arch-programs"
let X=0: let Y=0
all
print at XY;recnum()+1;"
"; tab 5; print program$
let X=X+1
if (X=10 and Y=0): letX=0:
letY=25:
endif
if (X=10 and Y=25): let X=0:
letY=50:
endif
if (X=10 and Y=50): let
X=0: letY=72:
endif
endall
print at 15,10;
input "Enter program to be

```

Continued on Page 9

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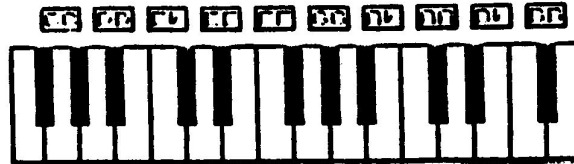
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Editorial-Continued from Page 2

previous years. This is the directory issue which was prepared by Barry Washington and edited for the BBS by Mark Fisher. We will try to keep it up to date by publishing changes every 2 or 3 months so you can keep your copy

current. Hank Dickson has an interesting report about the latest addition to Electronics Plus and Mark Fisher checks in with pieces on the BBS. Don't miss George Rey's listing of the programs for 1990. If you can help out, please do. Finally, Tom Robbins gives us some insights into Archive. I certainly hope

you enjoy this issue.

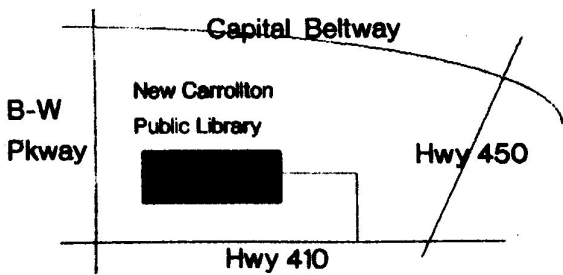
Again, I wish you the happiest of Holiday Seasons.

CATS Newsletter
 P.O. Box 467
 Fairfax Station, VA 22039

FIRST CLASS MAIL



KURT SWENSON



The next meeting of CATS will be held on:
Saturday, December 9, 1989 11:00 AM Workshop
 2:00 PM General Meeting
 At: New Carrollton Public Library 7414 Riverdale Road (Hwy 410), New Carrollton, MD

IF YOU ARE NOT A MEMBER OF CATS. THIS IS THE ONLY ISSUE YOU WILL RECEIVE

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 Monthly meetings are held from 11:00 AM to 4:30 PM, on the second Saturday of each month, at the New Carrollton Public Library.

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 Memberships cost \$18 per year, are good for 12 months, and include all privileges (access to libraries, group buys, etc.). A newsletter only subscription is available for persons living outside the Washington Metro area and is \$12 per year.

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 Timex SIG on CompuServe: Wednesday night, 10:00 PM Eastern time (GO CLUB).
 QZX BBS: (505) 522-7081 FIDO net 15, node 6. East Coast dial (703) 547-4815 FIDO net 18, node 9.

CATS BBS: (301) 588-0579. 8-N-1. 300 baud only. News and general information, 24 hours a day.

The Capital Area Timex/Sinclair Users Group is a not-for-profit group devoted to serving the interests of those who own, use, or are interested in the Timex/Sinclair family of computers.

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